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(54) Title: METHODS OF ASSESSING ENDOTHELIAL DYSFUNCTION USING ACUTE TRANSIENT RESPONSE FOLLOWING FAT ADMINISTRATION

(57) **Abstract:** The present invention provides methods utilizing the fat-induced antibody response (FIAR) to assess endothelial function. Additional methods are provided that utilize FIAR for diagnosing and monitoring the progression of vascular diseases, the success of treatment for these diseases, and as a measure of the oxidative stress imposed upon vascular endothelium. Still more methods are provided for measuring the oxidation products of lipids in blood following the administration of a polyunsaturated fatty acid (fat-induced acute response) to monitor the treatment success of a vascular disease, for monitoring the degree of endothelial inflammation, and for diagnosing and monitoring the progression of a cardiovascular disease.



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